

COMBINATORIAL OPTIMIZATION

The Quadratic Assignment Problem Theory and Algorithms

Eranda Çela

Quadratic Assignment Problem Theory And Algorithms

Valentine Korah



Quadratic Assignment Problem Theory And Algorithms:

The Quadratic Assignment Problem E. Cela,2013-03-14 The quadratic assignment problem QAP was introduced in 1957 by Koopmans and Beckmann to model a plant location problem Since then the QAP has been object of numerous investigations by mathematicians computers scientists operations researchers and practitioners Nowadays the QAP is widely considered as a classical combinatorial optimization problem which is still attractive from many points of view In our opinion there are at least three main reasons which make the QAP a popular problem in combinatorial optimization First the number of real life problems which are mathematically modeled by QAPs has been continuously increasing and the variety of the fields they belong to is astonishing To recall just a restricted number among the applications of the QAP let us mention placement problems scheduling manufacturing VLSI design statistical data analysis and parallel and distributed computing Secondly a number of other well known combinatorial optimization problems can be formulated as QAPs Typical examples are the traveling salesman problem and a large number of optimization problems in graphs such as the maximum clique problem the graph partitioning problem and the minimum feedback arc set problem Finally from a computational point of view the QAP is a very difficult problem The QAP is not only NP hard and hard to approximate but it is also practically intractable it is generally considered as impossible to solve to optimality QAP instances of size larger than 20 within reasonable time limits

The Quadratic Assignment Problem E. Cela,2014-01-15

Assignment Problems, Revised Reprint Rainer Burkard, Mauro Dell'Amico, Silvano Martello,2012-10-31 Assignment Problems is a useful tool for researchers practitioners and graduate students In 10 self contained chapters it provides a comprehensive treatment of assignment problems from their conceptual beginnings through present day theoretical algorithmic and practical developments The topics covered include bipartite matching algorithms linear assignment problems quadratic assignment problems multi index assignment problems and many variations of these Researchers will benefit from the detailed exposition of theory and algorithms related to assignment problems including the basic linear sum assignment problem and its variations Practitioners will learn about practical applications of the methods the performance of exact and heuristic algorithms and software options This book also can serve as a text for advanced courses in areas related to discrete mathematics and combinatorial optimisation The revised reprint provides details on a recent discovery related to one of Jacobi's results new material on inverse assignment problems and quadratic assignment problems and an updated bibliography

Handbook on Semidefinite, Conic and Polynomial Optimization Miguel F. Anjos, Jean B. Lasserre,2011-11-19 Semidefinite and conic optimization is a major and thriving research area within the optimization community Although semidefinite optimization has been studied under different names since at least the 1940s its importance grew immensely during the 1990s after polynomial time interior point methods for linear optimization were extended to solve semidefinite optimization problems Since the beginning of the 21st century not only has research into semidefinite and conic optimization continued unabated but also a fruitful interaction has developed

with algebraic geometry through the close connections between semidefinite matrices and polynomial optimization This has brought about important new results and led to an even higher level of research activity This Handbook on Semidefinite Conic and Polynomial Optimization provides the reader with a snapshot of the state of the art in the growing and mutually enriching areas of semidefinite optimization conic optimization and polynomial optimization It contains a compendium of the recent research activity that has taken place in these thrilling areas and will appeal to doctoral students young graduates and experienced researchers alike The Handbook s thirty one chapters are organized into four parts Theory covering significant theoretical developments as well as the interactions between conic optimization and polynomial optimization Algorithms documenting the directions of current algorithmic development Software providing an overview of the state of the art Applications dealing with the application areas where semidefinite and conic optimization has made a significant impact in recent years

The Quadratic Assignment Problem Rainer E. Burkard, Eranda Çela, Panos M. Pardalos, Leonidas S. Pitsoulis, 1998

Encyclopedia of Optimization Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

Handbook of Approximation Algorithms and Metaheuristics Teofilo F. Gonzalez, 2018-05-15 Handbook of Approximation Algorithms and Metaheuristics Second Edition reflects the tremendous growth in the field over the past two decades Through contributions from leading experts this handbook provides a comprehensive introduction to the underlying theory and methodologies as well as the various applications of approximation algorithms and metaheuristics Volume 1 of this two volume set deals primarily with methodologies and traditional applications It includes restriction relaxation local ratio approximation schemes randomization tabu search evolutionary computation local search neural networks and other metaheuristics It also explores multi objective optimization reoptimization sensitivity analysis and stability Traditional applications covered include bin packing multi dimensional packing Steiner trees traveling salesperson scheduling and related problems Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization computational geometry and graphs problems as well as in large scale and emerging application areas It includes approximation algorithms and heuristics for clustering networks sensor and wireless communication bioinformatics search streams virtual communities and more About the Editor Teofilo F Gonzalez is a professor emeritus of computer science at the University of California Santa Barbara He completed his Ph D in 1975 from the University of Minnesota He taught at the University of Oklahoma the Pennsylvania State University and the University of Texas at Dallas

before joining the UCSB computer science faculty in 1984 He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University He is known for his highly cited pioneering research in the hardness of approximation for his sublinear and best possible approximation algorithm for k tMM clustering for introducing the open shop scheduling problem as well as algorithms for its solution that have found applications in numerous research areas as well as for his research on problems in the areas of job scheduling graph algorithms computational geometry message communication wire routing etc Proceedings of the ... Congress on Evolutionary Computation ,2003

Algorithms ,2005 Evolutionary and Bio-inspired Computation Misty Blowers,Alex F. Sisti,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature *Evolutionary Algorithms and Chaotic Systems* Ivan Zelinka,Sergej Celikovsky,Hendrik Richter,Guanrong Chen,2010-02-23 This book discusses the mutual intersection of two fields of research evolutionary computation which can handle tasks such as control of various chaotic systems and deterministic chaos which is investigated as a behavioral part of evolutionary algorithms Quadratic Assignment and Related Problems Panos M. Pardalos,Henry Wolkowicz,1994-01-01 The methods described here include eigenvalue estimates and reduction techniques for lower bounds parallelization genetic algorithms polyhedral approaches greedy and adaptive search algorithms **Operations Research Proceedings 2001** Peter Chamoni,Rainer Leisten,Alexander Martin,Joachim Minnemann,Hartmut Stadtler,2002-05-27 This proceedings volume contains a selection of 97 papers presented at the International Conference on Operations Research OR 2001 the Annual Conference of the German Operations Research Society GOR The contributions cover the broad interdisciplinary spectrum of Operations Research and present recent advances in theory development of methods and applications in practice Subjects covered are Transport and Traffic Energy and Environment Quantitative Methods in Marketing Production and Logistics and Supply Chain Management Finance and Banking and Insurance Scheduling and Project Planning Operations Research in the Health Service Continuous Optimization Discrete and Combinatorial Optimization Stochastic Optimization and Simulation Econometrics and Statistics and Mathematical Economics Decision Theory Artificial Intelligence and Fuzzy Logic Information and Decision Support Systems and Operations Research in the Internet Didactics of OR and Public Understanding Algorithms and Theoretical Topics on Selected Combinatorial Optimization Problems Arman Kaveh,2010 We study the Quadratic Assignment Problem QAP Three Dimensional Assignment Problem 3AP and Quadratic Three Dimensional Assignment Problem Q3AP which combines aspects of both QAP and 3AP The three problems are known to be NP hard We propose new algorithms for obtaining near optimal solutions of QAP and 3AP and present computational results Our algorithms obtain improved solutions in some benchmark instances of QAP and 3AP We also discuss theoretical results on 3AP and Q3AP such as polynomially

solvable special cases and approximation algorithms A special case of 3AP is the constant 3AP where every feasible solution has the same cost Necessary and sufficient conditions are presented for an instance of 3AP to have a constant solution and the result is extended to Multidimensional Assignment Problems MAP Door Allocation Problem at Intermediate Consolidation Terminals of Less-than-truckload Motor Carriers Feng-Tien Yu,2004 *A Local Search Algorithm for the Quadratic Assignment Problem* Kowatha A. Murthy,Panos M. Pardalos,1990 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 *Theory and Algorithms for Signal Routing in Integrated Circuit Layout* Chi-Ping Hsu,1983 Air Pollution V H. Power,T. Tirabassi,C. A. Brebbia,1997 Mathematics of Industrial Systems IV ,2000

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